Approved For Release 2008/03/18 : CIA-RDP78B03817A000300020065-9				
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SECRET	***************************************	211		
PASS TO SPO ATTN:			Mana counts	
	VEMBER 1967 FUNCTION ANALYSIS			
2. UNDERSTAND VERBALLY FROM FODAY NO LONGER DESIRES VALUE FUNCTION ANALYSIS AS PART OF NICE GIRL EFFORT. SUBSEQUENT WORK HISING THIS TECHNIQUE WOULD BE SEPARATE ACTIVITY TO SUPPORT SUGGESTION IN HIS LETTER OF 13 OCTOBER. PLEASE BE GUIDED ACCORDINGLY.				
3. HOWEVER, QUERY TO 115-A MANUFACTURER INDICATES POSSIBILITY OF PROVIDING DATA NOTED IN REFERENCE BY TIME NEEDED.				
4. 115-A MANUFACTURER PROVIDED INPUT PARAMETERS THEY INTEND TO USE, FOR YOUR INFO IN PARA 6 BELOW. 5. ADVISABILITY OF PURSUING MATTER FURTHER WITH 115-A MANU-				
FACTURER WITH RESULTANT SIGNIFICANT MANPOWER AND COST EXPENDITURES DEPENDS TO LARGE EXTENT ON AVAILABILTY OF SIMILAR INFO AND DATA USING ESSENTIALLY SAME INPUT PARAMETERS FROM SR-71 CAMERA MANU- FACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME?				
6. INPUT PARAMETERS REFERENCED IN PARA 4 ABOVE: A. AVERAGE TARGET BRIGHTNESS 600 FOOT LAMBERTS B. TRI-BAR TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL).				
 C. FILTER FACTOR D. EXPOSURE TIME 	(WRATTEN 12) EQUALS SQ/(10.76) (B) (2E)	.S 1.5		File
T EQUALS EXPOSURE TIME SECONDS P EQUALS FILTER FACTOR B EQUALS AVERAGE SCENE BRIGHTNESS FOR BLACKBODY				
RADIATION AT 6000 K DEGREES EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) T EQUALS T NUMBER FOR THE OPTICAL SYSTEM.				
E. AIM CURVE SPATIAL FREQUEN	NCY RESOLV	ABLE MODULAI	TION	TID IAD
70 100	•1	,030 ,046		PAG DIAXX-4 SPAD
150 .074 200 .107 AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS.				
F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS FOR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES. KARRORS TRANSFER FUNCTION (K, SPATIAL FREQUENCY IN LINES PER MILLIMETER) WILL				
BE STATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y DIRECTIONS AND WILL BE REPORTED FOR THE 96 PERCENT PROBABILITY LEVEL. A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.				
G. WINDOW BOUNDARY LAYER (GAUSSIAN) SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO (1 PLUS 0.2MXM) RADIANS (SUPERSONIC)				
DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY OF AIR. M EQUALS MACH NO. H. VEHICLE VIBRATION SPECTRUM. SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK. (AVAILABLE SECTION 1.2.2, PAGE 2				
(B) Bibbook		S. 9 1 100		Entre of the second
	SECRET		: 9	Excluded from automatic flowing rading and daclassification

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2.25**X**1

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I. VEHICLE ATTITUDE AND RATE ERROR (FOR STRAIGHT AND LEVEL FLIGHT AND COORDINATED TURNS).
PITCH PLUS OR MINUS 15 MIN.
ROLL PLUS OR MINUS 15 MIN.
AZIMUTH PLUS OR MINUS 23 MIN.
ANGULAR PETURBATIONS

RATE PERIOD MAX AMPL
PITCH 6-11 MR/SEC 3-5 SEC 0.286 DEG
ROLL 3-5 MR/SEC 6-10 SEC 0.286 DEG
YAW 0.8-1.2 MR/SEC N 6-10 SEC 0.071 DEG

Ø.8-1.2 MR/SEC N 6-10 SEC Ø.071 DEG
J. VEHICLE TURN RATE AND ALTITUDE TURN RATE EQUALS 0.00763
RAD/SEC
ALTITUDE EQUALS 78000 FEET
(BANK ANGLE EQUALS 35 DEG.)

SECRET

-- END OF MESSAGE --

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